

What is claimed is:

Sub A2
1. Ink comprising

5 a primary particle of a copolymer obtained from at least one kind of a radical polymeric monomer;
a colorant; and
a solvent that is liquid at room temperature.

10 2. The ink according to claim 1, wherein said primary particle of a copolymer is prepared by a polymerization process selected from the group consisting of an emulsion polymerization, a micro emulsion polymerization and a soap-free polymerization.

3. The ink according to claim 1, wherein said primary particle of a copolymer has a volume average particle diameter ranging from 0.01 through 2 μ m.

15 Sub A3
4. The ink according to claim 1, wherein said copolymer has a glass transition point ranging from -30 through 70° C.

20 5. The ink according to claim 1, wherein said copolymer has a softening point (by a flow tester) ranging from 40 through 150° C.

25 6. The ink according to claim 1, wherein said colorant comprises one selected from the group consisting of a pigment and a dye, and said colorant is dissolved or dispersed in said primary particle of a copolymer.

7. The ink according to claim 1, wherein said colorant comprises one selected from the group consisting of a pigment and a dye, and said colorant is adsorbed on

or coats a surface of said copolymer.

8. The ink according to claim 1, wherein said colorant comprises one selected from the group consisting of a pigment and a dye, and said colorant is dissolved or
5 dispersed in said solvent.

9. The ink according to claim 1, wherein said copolymer is included at 1 through 50 wt %.

10. The ink according to claim 1, wherein said colorant is included at 0.1 through 20 wt %.

11. The ink according to claim 1, wherein at least one kind of said radical polymeric monomer is selected from the group consisting of:

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- (a) styrene and styrene derivative; and
- (b) alkyl acrylate, alkyl metacrylate and derivatives thereof.

12. The ink according to claim 1, wherein said copolymer includes 20 through 99 wt % of styrene and styrene derivative in the whole.

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13. The ink according to claim 1, wherein said copolymer includes 10 through 80 wt % of alkyl acrylate, alkyl metacrylate and derivatives thereof in the whole.

Sub A4
25 14. Ink comprising:
a copolymer particle obtained from at least one kind of a radical polymeric monomer;
a colorant; and

Sub 44
a solvent that is liquid at room temperature.

15. The ink according to claim 14, further comprising a surfactant covering a surface of said copolymer particle.

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Sub A5
16. An ink cartridge including a case and ink which is stored in said case and comprises:

a copolymer particle obtained from at least one kind of a radical polymeric monomer;

10 a colorant; and

a solvent that is liquid at room temperature.

17. A recording device including a head and an ink cartridge supplying ink to said head, wherein said ink comprises:

15 a copolymer particle obtained from at least one kind of a radical polymeric monomer;

a colorant; and

a solvent that is liquid at room temperature.

20 SUB C57
18. A recording device according to claim 17, wherein said head is a piezo-type inkjet head.